



Gulf of Mexico Harmful Algal Bloom Bulletin

10 November 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

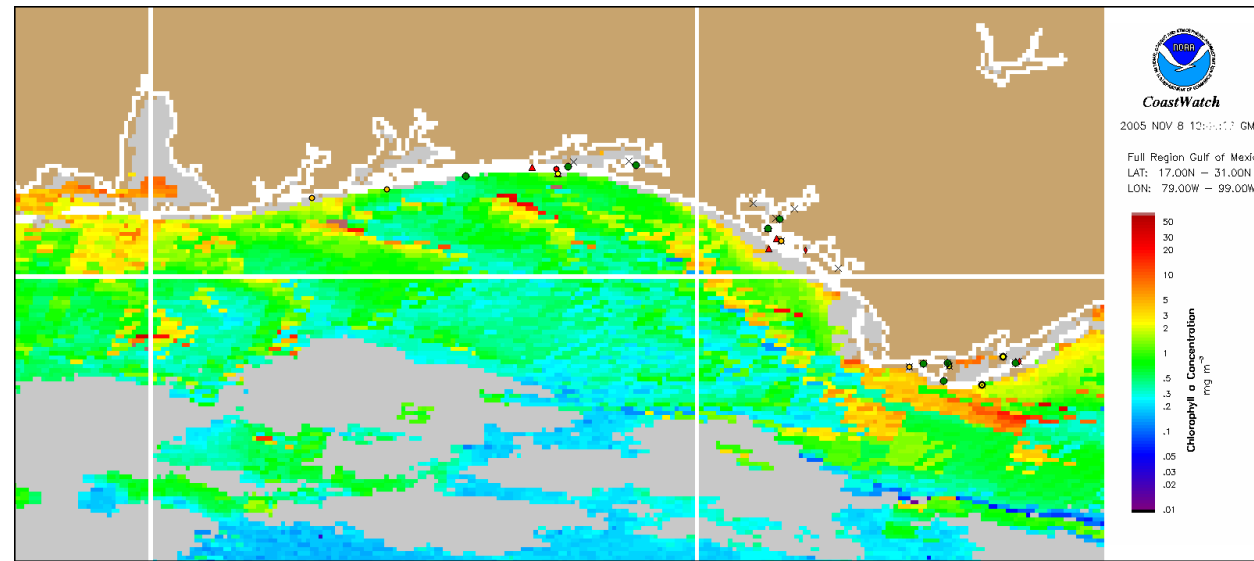
Last bulletin: November 10, 2005

Conditions: Harmful algal blooms have been identified in patches at Dixie, Levy, and from southern Pinellas to Sarasota counties. A second bloom has been identified in patches at Okaloosa, Bay, and Franklin Counties. The following patchy impacts are possible through Monday: none to low impacts in Dixie, Levy, and Sarasota counties, low to moderate impacts in Okaloosa, Bay and Franklin Counties. Dead fish have been reported in Okaloosa, Franklin and Levy counties over the past few days. Dead fish smell, while unpleasant, does not produce the same respiratory irritation as harmful algal blooms.

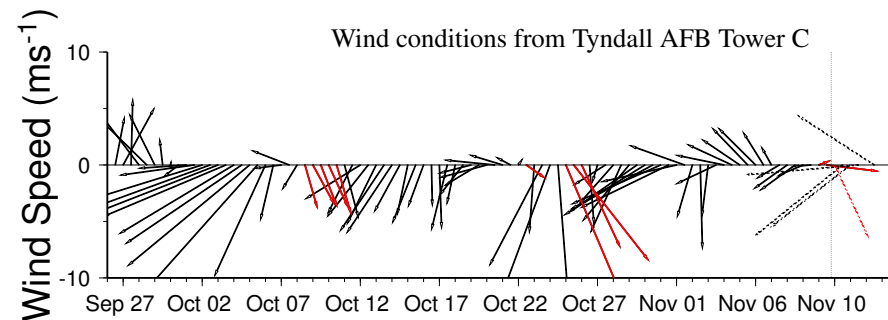
Analysis: The bloom persists in patches along Florida's panhandle. Samples indicated decreased overall *K. brevis* concentrations along-shore (11/9; FWRI). Cloudiness limits analysis, however, chlorophyll concentrations have increased offshore (up to 5 $\mu\text{g/L}$), especially near Apalachicola Bay entrance. Wind transport model indicates possible southern expansion of bloom since last bulletin, up to 15-20 km off-shore.

Variable alongshore and onshore winds tomorrow through Monday may transport bloom onshore and increase impacts.

~Fenstermacher, Keller



Chlorophyll concentration from satellite with HAB areas shown by red polygon(s).

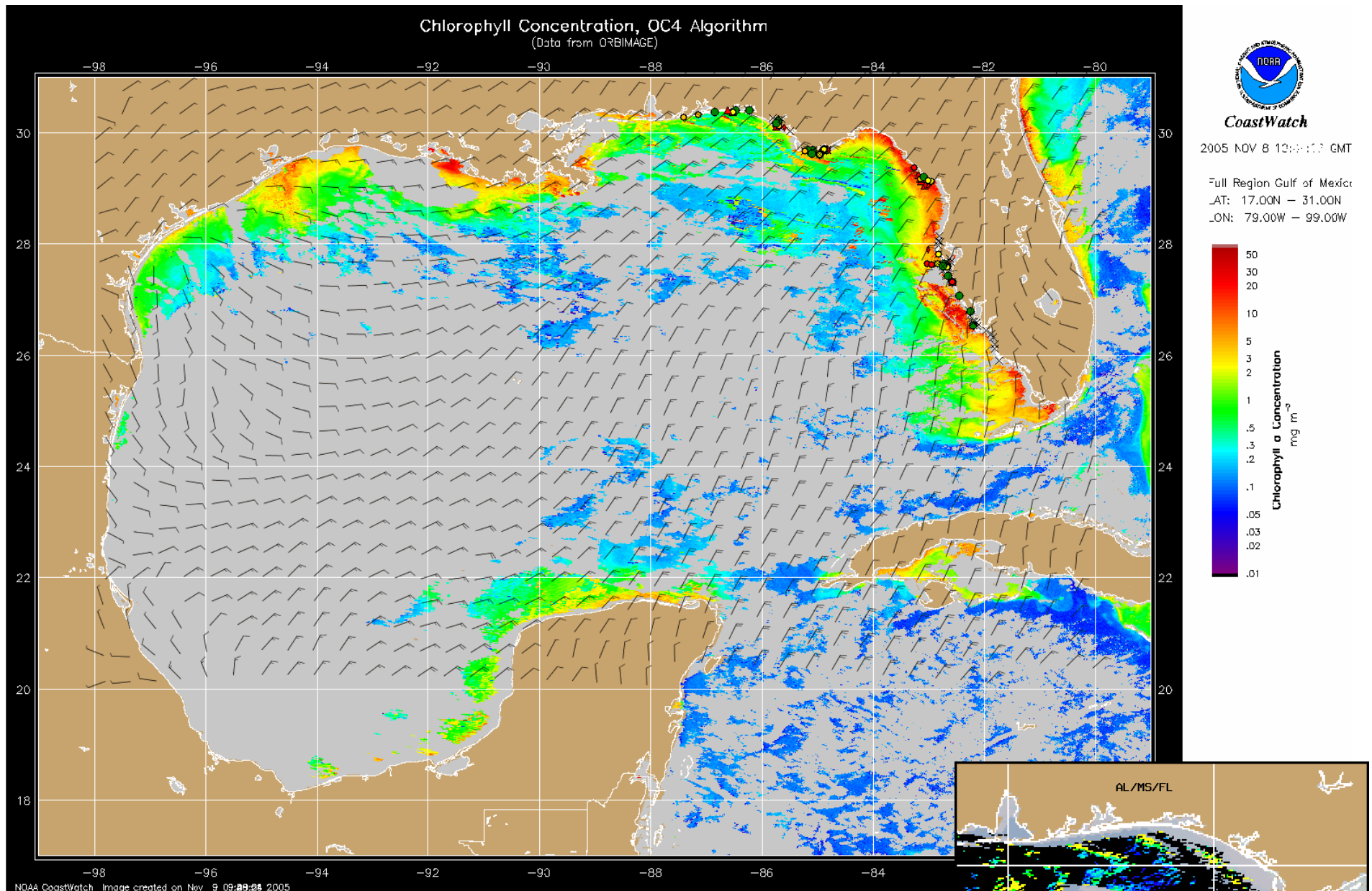


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

NW Florida: Northwesterlies clocking to northeasterlies today followed by southeasterlies and easterlies Friday through Monday (10-15 knots; 5-8 m/s).

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Chlorophyll concentration from satellite and forecast winds for November 11, 2005 12Z with cell concentration sampling data from October 31, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)